Remarks

By this amendment:

- 1. reference numbers in FIG 1 are corrected,
- 2. several errors in the Specification are corrected,
- 3. claim 1 is amended,
- 4. new claims 4-6 are added,
- 5. reason is given for allowance of rejected claims 1-3 and new claim 4-6.

The Office Action has eleven specification informalities. All of these informalities are corrected pursuant to the Office Action. However, applicant's copy of the application, which is a believed to be an exact copy of the application as filed, does not have the Office Action informalities in items 1 and 5-9.

An important feature of applicant's invention is a synchronizer having an integrated self-energizing, pre-energizing assembly and blocker assembly such as assembly (44) in combination with a detent mechanism (70). The detent mechanism (70) ensures proper engaging alignment of non-self-energizing surfaces (46c, 48c, 54e, 56e) when a shift sleeve (36) is in the so-called neutral range and during initial movement of the shift sleeve from neutral. Claim 1 as originally filed is believed to patently define over cited US Patent 5,425,437 (Nellums) Nellums does not disclose or suggest an integrated self-energizing, pre-energizing assembly, and blocker assembly such as assembly (44) in combination with a detent mechanism (70).

The rejection states that, "Claims 1-3 are rejected under 35U.S.C. 102(b) as being anticipated by Nellums (437). Nellums discloses a synchronizer including a hub 32, first and second jaw teeth 28,30, a shift sleeve 34, first and second friction surfaces 24,26, first and second blocker surfaces 44,46, pre-energizing means 52, first and second self-energizing surfaces 70a,70b separated by non-self-energizing surfaces 70c, third and fourth self-energizing 72a,72b separated by non-self-energizing surfaces 72c, a member 63 mounted on the shift sleeve, and detent means, The hub includes an annular flange defining external splines 38 and has a radial bore receiving resilient means 58 for biasing the follower 62 into engagement with a detent in the sleeve. The detent is formed at 63a in a radially inward facing surface of the internal splines."

This rejection is respectively traversed. The Nellums detent 63a not formed in a radially inwardly facing surface of the internal splines as stated in the rejection. Detent 63a is formed in a torque ring 63 that has limited rotation relative to the shift sleeve and the

internal splines. Accordingly, claim 1 as originally filled is not anticipated under 35

U.S.C. 102(b) by Nellums.

Additionally, claim 1 is believed to be patently defined further over Nellums in view of

features added thereto by this office action response. These features include a further

requirement that the third and fourth blocker surfaces and the third and fourth self-

energizing surfaces be circumferentially interposed between the first and second blocker

surfaces and the first and second self-energizing surfaces, and that the detent means

include a recess affixed against movement relative to the shift sleeve. Nellums does not

disclose or suggest these features.

Claims 2 and 3 are believed to be allowable since they depend from allowable claim 1

and since they add features of applicant's detent means that are not disclosed or

suggested by Nellums.

New claim 4 depends from claim 1 and adds structure to the integrated self-energizing,

pre-energizing assembly, and blocker assembly (44) that are not disclosed or suggested

by Nellums.

New claims 5 and 6, which are patterned after claims 2 and 3, are believed to be

allowable since they depend from allowable claim 4 and since they add features of

applicants detent means that are not disclosed or suggested by Nellums.

In view of the above, this application and claims 1-6 therein are believed to be allowable.

The Commissioner is hereby authorized to charge any fees which may be required or

credit any overpayment to Account NO. 05-0275.

Respectfully submitted,

Typed: 03/11/2006

Registration No. 26,027

1111 Superior Avenue, Cleveland, OH 44114

Eaton Corporation

Eaton Center

Phone: (865) 458-1107

(775) 254-0089 FAX:

Internet: PRulon@chartertn,net

13

